CLAIMS

1. A mist supply mechanism for a rotary tool for supplying a mist under pressure to a rotary tool (18) disposed around a rotating shaft (10), and implementing cooling and/or lubricating of the rotary tool (18) during workpiece-machining, wherein

the rotary tool (18) is disposed around a sleeve (16) with a required length circumferentially engaging the rotating shaft (10);

a plurality of mist supply passages (38) extending in the axial direction are provided on the sleeve (16); and

the mist is supplied to the rotary tool (18) through the mist supply passage (38).

2. The mist supply mechanism for a rotary tool according to Claim 1, wherein the plurality of mist supply passages (38) are long groove sections which are concaved on the outer surface of the sleeve (16) and extend in the axial direction.

3. The mist supply mechanism for a rotary tool according to Claim 1, wherein the plurality of mist supply passages (38) are long groove sections which are concaved on the inner surface of the sleeve (16) and extend in the axial direction.

4. The mist supply mechanism for a rotary tool according to Claim 1, wherein the plurality of mist supply passages (38) are tubular passages which are perforated at the cylindrical thick section of the sleeve (16) and extend in the axial direction.

5. The mist supply mechanism for a rotary tool according to Claim 4,

wherein the mist supply passage (38) consisting of the tubular passage has one end communicating with a mist supply source and the other end being closed as a closed-end section; and

each one end of a plurality of passage ports (40) axially perforated at the cylindrical thick section correspondingly communicates with the mist supply passage (38).